PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference FP-8850PCT	FOR FURTHER ACTION	See item 4 below
International application No. PCT/JP2005/001342	International filing date (day/month/year) 31 January 2005 (31.01.2005)	Priority date (day/month/year) 26 February 2004 (26.02.2004)
International Patent Classification (8th See relevant information in Form P	n edition unless older edition indicated) PCT/ISA/237	
Applicant DAIKIN INDUSTRIES, LTD.		

1.	This international preliminary re International Searching Authority		r I) is issued by the International Bureau on behalf of the
2.	This REPORT consists of a total	of 5 sheets, including this co	ver sheet.
	In the attached sheets, any refere to the international preliminary r		the International Searching Authority should be read as a reference er I) instead.
3.	This report contains indications i	relating to the following item:	s:
	Box No. I	Basis of the report	
	Box No. II	Priority	
	Box No. III	Non-establishment of opin applicability	nion with regard to novelty, inventive step and industrial
	Box No. IV	Lack of unity of invention	
	Box No. V		Article 35(2) with regard to novelty, inventive step or industrial explanations supporting such statement
	Box No. VI	Certain documents cited	
	Box No. VII	Certain defects in the inter	national application
	Box No. VIII	Certain observations on the	e international application
4.	The International Bureau will co not, except where the applicant r date (Rule 44bis .2).	ommunicate this report to desi makes an express request und	ignated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but er Article 23(2), before the expiration of 30 months from the priority
		·	Date of issuance of this report 19 September 2006 (19.09.2006)
	The International Bure	au of WIPO	Authorized officer
	34, chemin des Cole		Yoshiko Kuwahara

e-mail: pt07@wipo.int

1211 Geneva 20, Switzerland

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHOR	ITY		ANC.
To:			PCT PCT
			RITTEN OPINION OF THE IONAL SEARCHING AUTHORITY
			(PCT Rule 43bis.1)
		Date of mailing (day/month/year)	-
Applicant's or agent's file reference FP-8850PCT		FOR FURTHER	ACTION See paragraph 2 below
International application No. PCT/JP2005/001342	International filing date (Priority date (day/month/year) 26.02.2004
International Patent Classification (IPC) or both	n national classification an	d IPC	
Applicant DAIKIN INDUSTRIES, LT	rd.		
Box No. IV Lack of unit Box No. V Reasoned st applicability Box No. VI Certain doct Box No. VII Certain defe Box No. VIII Certain obset 2. FURTHER ACTION If a demand for international prelin International Preliminary Examining than this one to be the IPEA and the this International Searching Authority If this opinion is, as provided above,	opinion shment of opinion with reg ty of invention attement under Rule 43bis. t; citations and explanation tuments cited texts in the international app ervations on the internation minary examination is m Authority ("IPEA") excep chosen IPEA has notified twill not be so considered twill not be so considered considered to be a writte triate, with amendments, to of 22 months from the pre A/220.	gard to novelty, invent I(a)(i) with regard to ns supporting such state plication nal application ade, this opinion with that this does not applicational Burton application of the IPEA	Il be considered to be a written opinion of the ply where the applicant chooses an Authority other eau under Rule 66.1bis(b) that written opinions of A, the applicant is invited to submit to the IPEA a of 3 months from the date of mailing of Form
Name and mailing address of the ISA/JP		Authorized officer	
Facsimile No.		Telephone No.	

Воз	x No. I Basis of this opinion	
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which is filed, unless otherwise indicated under this item.	was
	This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (u	nder
	Rule 12.3 and 23.1(b)).	X
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the clainvention, this opinion has been established on the basis of:	imed
	a. type of material	
	a sequence listing	
	table(s) related to the sequence listing	
	b. format of material	
	in written format	
	in computer readable form	
	c. `time of filing/furnishing	
	contained in the international application as filed.	
	filed together with the international application in computer readable form.	
	furnished subsequently to this Authority for the purposes of search.	
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been fill furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application filled or does not go beyond the application as filed, as appropriate, were furnished.	
4.	Additional comments:	
	·	
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International application No.
PCT/JP2005/001342

Box			ule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; pporting such statement	
1.	Statement			
	Novelty (N)	Claims	1-7	YES
		Claims		NO
	Inventive step (IS)	Claims	4,7	YES
		Claims	1-3, 5, 6	NO
	Industrial applicability (IA)	Claims	1-7	YES
		Claims		NO

2. Citations and explanations:

Document 1: JP 2004-51937 A (Gakko Houjin Nihon Daigaku), 19 February 2004, claim 1 (Family: none)

The inventions relating to claims 1-3, 5 and 6 do not appear to involve an inventive step based on document 1 cited in the ISR. As a polymer in a polymer composite material comprising nanodiamond dispersed in a polymer described in document 1, using a fluorinated elastomer (perfluoroelastomer) so as to make the obtained polymer composite material serve as a sealing material that is a typical application of a fluorinated elastomer composition would be easy for a party skilled in the art.

The inventions relating to claims 4 and 7 are not described in any of the documents cited in the ISR; nor would they be obvious to a party skilled in the art.

			PC17	JP2003/001342
Box No	. VI Certain documents cited			
1. Ce	ertain published documents (Rule 43bis.1 and 7	0.10)		
	Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
}	JP 2004-256592 A	16.09.2004	24.02.2003	
	[E, X]			
	JP 2004-124086 A	22.04.2004	20.08.2003	13.09.2002
	[E, X]			
·				
2. No	on-written disclosures (Rule 43bis.1 and 70.9)			
	Kind of non-written disclosure	Date of non-written di		te of written disclosure ag to non-written disclosure
		(day/month/yea		(day/month/year)
				·

PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION FP-8850PCT See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2005/001342 31.01.2005 26.02.2004 International Patent Classification (IPC) or both national classification and IPC Applicant DAIKIN INDUSTRIES, LTD. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Authorized officer

Telephone No.

Facsimile No.

Box	x No. I Basis of this opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it will filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (unde
	Rule 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claims invention, this opinion has been established on the basis of:
	a. type of material
	a sequence listing
	table(s) related to the sequence listing
	b. format of material
	in written format
	in computer readable form
	c. time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:

WRITTEN OPINION OF THE

International application No.

Claims Inventive step (IS) Industrial applicability (IA) Claims Statement Claims 1-7 Claims 4, 7 Claims 1-3, 5, 6	INTERNA	TIONAL SEARCHING AUTHORITY	PCT/JP2005/001342
Novelty (N) Claims Inventive step (IS) Claims Claims Claims A, 7 Claims Industrial applicability (IA) Claims Claims Claims 1-7 Claims Claims Claims 1-7 Claims Claims Claims Claims 1-7 Claims Claims Claims The inventions relating to claims 1-3, 5 and 6 do not appear to involve an inventive step based on document 1 cited in the ISR. As a polymer in a polymer composite material comprising nanodiamond dispersed in a polymer described in document 1, using a fluorinated elastomer (perfluoroelastomer) so as to make the obtained polymer composite material serve as a sealing material that is a typical application of a fluorinated elastomer composition would be easy for a party skilled in the art. The inventions relating to claims 4 and 7 are not described in any of the document.			ovelty, inventive step or industrial applicability;
Inventive step (IS) Claims Claims 4, 7 Claims 1-3, 5, 6 Industrial applicability (IA) Claims 1-7 Claims Citations and explanations: Document 1: JP 2004-51937 A (Gakko Houjin Nihon Daigaku), 19 February 2004, claim (Family: none) The inventions relating to claims 1-3, 5 and 6 do not appear to involve an inventive step based on document 1 cited in the ISR. As a polymer in a polymer composite material comprising nanodiamond dispersed in a polymer described in document 1, using a fluorinated elastomer (perfluoroelastomer) so as to make the obtained polymer composite material serve as a sealing material that is a typical application of a fluorinated elastomer composition would be easy for a party skilled in the art. The inventions relating to claims 4 and 7 are not described in any of the document.	, Statement		
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Industrial applicability (IA) Claims Claims 1-7 Claims Claims 1-7 Claims Citations and explanations: Document 1: JP 2004-51937 A (Gakko Houjin Nihon Daigaku), 19 February 2004, claim (Family: none) The inventions relating to claims 1-3, 5 and 6 do not appear to involve an inventive step based on document 1 cited in the ISR. As a polymer in a polymer composite material comprising nanodiamond dispersed in a polymer described in document 1, using a fluorinated elastomer (perfluoroelastomer) so as to make the obtained polymer composite material serve as a sealing material that is a typical application of a fluorinated elastomer composition would be easy for a party skilled in the art. The inventions relating to claims 4 and 7 are not described in any of the document			
Claims 1-3, 5, 6 Claims 1-7 Claims 1-7 Claims 1-7 Claims 2004-51937 A (Gakko Houjin Nihon Daigaku), 19 February 2004, claim (Family: none) The inventions relating to claims 1-3, 5 and 6 do not appear to involve an inventive step based on document 1 cited in the ISR. As a polymer in a polymer composite material comprising nanodiamond dispersed in a polymer described in document 1, using a fluorinated elastomer (perfluoroelastomer) so as to make the obtained polymer composite material serve as a sealing material that is a typical application of a fluorinated elastomer composition would be easy for a party skilled in the art. The inventions relating to claims 4 and 7 are not described in any of the document	Incomplete and (ICI)		
Citations and explanations: Document 1: JP 2004-51937 A (Gakko Houjin Nihon Daigaku), 19 February 2004, claim (Family: none) The inventions relating to claims 1-3, 5 and 6 do not appear to involve an inventive step based on document 1 cited in the ISR. As a polymer in a polymer composite material comprising nanodiamond dispersed in a polymer described in document 1, using a fluorinated elastomer (perfluoroelastomer) so as to make the obtained polymer composite material serve as a sealing material that is a typical application of a fluorinated elastomer composition would be easy for a party skilled in the art. The inventions relating to claims 4 and 7 are not described in any of the document.	Inventive step (18)	Claims 4, /	
Citations and explanations: Document 1: JP 2004-51937 A (Gakko Houjin Nihon Daigaku), 19 February 2004, claim (Family: none) The inventions relating to claims 1-3, 5 and 6 do not appear to involve an inventive step based on document 1 cited in the ISR. As a polymer in a polymer composite material comprising nanodiamond dispersed in a polymer described in document 1, using a fluorinated elastomer (perfluoroelastomer) so as to make the obtained polymer composite material serve as a sealing material that is a typical application of a fluorinated elastomer composition would be easy for a party skilled in the art. The inventions relating to claims 4 and 7 are not described in any of the document.		Claims 1-3, 3, 0	N
Citations and explanations: Document 1: JP 2004-51937 A (Gakko Houjin Nihon Daigaku), 19 February 2004, claim (Family: none) The inventions relating to claims 1-3, 5 and 6 do not appear to involve an inventive step based on document 1 cited in the ISR. As a polymer in a polymer composite material comprising nanodiamond dispersed in a polymer described in document 1, using a fluorinated elastomer (perfluoroelastomer) so as to make the obtained polymer composite material serve as a sealing material that is a typical application of a fluorinated elastomer composition would be easy for a party skilled in the art. The inventions relating to claims 4 and 7 are not described in any of the document.	Industrial applicability (A) Claims 1-7	Y
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	fluorinated elaston material serve as a	er (perfluoroelastomer) so as to m sealing material that is a typical a	nake the obtained polymer composite pplication of a fluorinated elastomer
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. Ce	rtain pub	lished documents (Rule 4)	Jois. I will re	/			
		Application No. Patent No.		Publication date (day/month/year)		ng date conth/year)	Priority date (valid cla (day/month/year)
	JP	2004-256592	A	16.09.2004	24.0	2.2003	
	[E,	x]					
	JP	2004-124086	A	22.04.2004	20.0	8.2003	13.09.200
	[E,	X]	•				
				1	á		
			•				
No		disclosures (Rule 43 <i>bis</i> .1 Kind of non-written disclo		Date of non-written of		referring	
No				Date of non-written of (day/month/yea		referring	e of written disclosure g to non-written disclosure (day/month/year)
No						referring	g to non-written disclosure
No						referring	g to non-written disclosure
No						referring	g to non-written disclosure
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No			osure	(day/month/ye		referring	g to non-written disclosure
		Kind of non-written disclo	osure		ar)	referring	g to non-written disclosure (day/month/year)
	1	Kind of non-written disclo	osure	(day/month/ye	ar)	referring	g to non-written disclosure (day/month/year)